INDEX.

Abbott (C. C.), American Stone Implements, 190, 215; Habits of the Belted Kingfisher, 227
Abel (Prof. F. A., F.R.S.), Accidental Explosions, 436, 477
Aberdeen University, 413, 457
Acari mounted for the Microscope, 406
Acclimatisation: Paris, New Zealand, Cape of Good Hope, 77, 98; of Plants, 135, 174; of Salmon, in Otago, 209
Acoustic Reversibility, Prof. Tyndall on, 239
Adams (Prof. A. Leith), Fossil Remains of Fallow Deer in Malta, 247
"Aërial World," by G. Hartwig, M.D., 385
Aëronautics (*See* Balloons)
Africa: Explorations in, 116, 195, 293, 356, 457, 496; by Dr. Lenz, 475; Livingstone's "Last Journals," 142, 182; Lieut. Cameron's Expedition, 153; Mr. H. M. Stanley's Expedition, 153; Capt. Gordon's Expedition, 435; Progress in, 435
Agassiz (Prof. A.), Embryology of the Ctenophoræ, 76
Agassiz Memorial Fund, 413
Agricultural Education, 104
Agricultural Society and the Potato Disease, 67, 109, 128
Agriculture in Victoria, 361
Allport (Samuel), Geology and the Arctic Expedition, 268
Aloes (Tree) of South Africa, 89, 254
Alpha Fibre (Esparto Grass), 333
Alpine Club Map of Switzerland, 8
"Amazon and Madeira Rivers," by Franz Keller, 241, 262
America: Bancroft's "Native Races of the Pacific States," 442; Academy of Arts and Sciences, 203; Survey of Colorado, 154; of Texas, 155; Anderson School of Natural History, 167; Natural Phenomena in, 329, 386; Scientific Survey, 381; Temperature Chart, 267
American Society, Paris, 135
Amphibia, Development of the Columella Auris in, 68
Amú Expedition, 29
Amú Darya River, Cause of the Change of its Course, 229
Anabas scandens, or Climbing Perch, 109
Anatomy, Journal of, 257
"Anatomy, Human," by W. Turner, M.D., 464
Ancient Monuments Bill, 481
Anderson School of Natural History (U.S.), 167
Anderson (Prof. Thos.), Obituary Notice of, 35
Angell (J.), "Elements of Animal Physiology," 185
Animal Kingdom, Classification of the, 101
"Animal Physiology," by J. Angell, 185
"Animal Physiology," by J. Cleland, M.D., F.R.S., 504
Antares, as a Double Star, 249, 274, 287, 405; Occultation of, 308
"Anthropological Contributions," by George Gerland, 384
Anthelm's Star, 407
Anthropological Institute, 60, 99, 139, 199, 239, 278, 379, 398, 459
Anthropological Society, Paris, 98; Munich, 496
Anthropology, Notes and Queries on, 226
"Ants, Harvesting," by J. T. Moggridge, F.L.S., 245
Ants and Bees, 306
Aquaria: Utilisation of, 87; Manchester, 36: Hastings, 216; Southport, Westminster, Plymouth, Edinburgh, Scarborough, Birmingham, 393, 396, 427
Arctic Exploration: Dr. Petermann on, 37; English Arctic Expedition, 16, 55, 61, 75, 85, 87, 114, 134, 153, 173, 235, 253, 293, 348, 355, 372, 474; German Arctic Expedition of 1869-70, 63; Austro-Hungarian Expedition of 1872-74, 366, 396, 415; Geology, 268, 447, 467, 492, 508; Meteorology, 434, 467; Vegetation, 433
Argelander (Prof. F. W. A.), Obituary Notice of, 332
Argentine Republic, Science in the, 253
Ascherson (Dr.), Vegetation of the Libyan Desert, 137
Ashe (W. Percy), Kirkes' Physiology, 227, 363
"Assyrian Discoveries," by Geo. Smith, 441
Astronomy: *Our Astronomical Column*, 228, 249, 269, 286, 308, 348, 365, 387, 407, 428, 446, 472, 489, 507; Brinkley's "Astronomy," by Stubbs and Brünnow, 83; Drayson's "Proper Motion of the Fixed Stars," 66
Atlantic Notes, 234, 290, 312
Atmosphere, Upper Currents of the, 457
Atomic Weights, Dalton's Table of, 52
Attraction and Repulsion arising from Radiation, 494
Auroræ, Geographical Distribution of, 14
Austro-Hungarian North Polar Expedition, 396, 415
Australia: Exploration in, 93; Flora of, 254 (*See* Sydney, Victoria)

Baker (Sir Samuel W., Pacha, F.R.S.), "Ismailia," 24
Baldwin (Prof. Thos.), Agricultural Education, 104
Balfour (F. M., B.A., and M. Foster, B.A.), "Elements of Embryology," 126
Balloons: Siege (French), 76; Ascent from Paris, 429; Experimental in America, 456; Fatal Ascent of the *Zenith*, 495, 513
Bamboo Poison, 18
Banbury, Science at, 310
Bancroft (H. H.), "Native Races of the Pacific States," 442
Barometer, Chameleon, 307, 365
Barrett (Prof. W. F.), Sensitive Flames, 129; Morse Code, 328
Basilisk, H.M.S., Survey of Coast Lines, 134
Baynes (Prof. S.), "Encyclopædia Britannica," 343
Beaumont (Elie de), Obituary Notice of, 41
Beavers imported to the Isle of Bute, 216
Beccari (Dr. O.), Discoveries in Herpetology, 447
Becker (C. L. C.), Obituary Notice of, 455
Becquerel (M.), Solar Physics, 132
Bee, Tailor, 476
Bees and Ants, Sir J. Lubbock, Bart., F.R.S., on, 159, 306
Bees and Flowers, 248, 285
Beetroot Cultivation, 314, 395
Belfast Natural History Society, 155
Belgium; Horticulture, 154; Royal Academy of Sciences, 398; Roman Tombs, 435; Temperature of Brussels, 444
Bellot (Lieut.), Volunteer for the Arctic Expedition, 173
Bennett (Alfred W.), Flowering of the Hazel, 466
Berlin: Academy of Sciences, 114; German Chemical Society, 200, 240
Bessemer Steamer, 342
Bettany (G. T., B.A.), Practical Science at Cambridge, 131
Bidie (G.), Suicide of Scorpions, 29, 47
Biology, Results of the *Polaris* Expedition, 134
Bird (Isabella J.), "The Hawaiian Archipelago," 322; Volcanic Action in the Sandwich Islands, 386
"Birds of Europe," by H. E. Dresser, F.Z.S., 485
"Birds of Northumberland and Durham," by John Hancock, 281
"Birds of Shetland," by H. L. Saxby, M.D., 81
Birds: Flight of, 364; Migration of, 5, 135, 149, 234; Birds of Borneo, 407; Bird of Paradise, New, 208; Birds of Paradise in New Guinea, 248; Birds of Utah, 136
Birmingham and Midland Institute; Address by Sir John Lubbock, Bart., F.R.S., 21; Natural History Society, 274; College of Science, 331
Black (Dr. J. W.), Columnar Formation in Mud Banks, 285; Ocean Waves, 444
Blackbird, Ring, 187, 209, 228
Blake (Rev. J. F.), Sub-Wealden Exploration, 267

Blanford (H. F.), Report on Indian Meteorology, 145; Mud Banks on Malabar Coast, 187
Blind Fish of the Mammoth Cave, 256
Blood Louse, 394
Boiling Lake in Dominica, 475
Boldo, a new tonic medicine, 36, 414
Bon (Dr. Gustave le), "La Vie," 246
Bonney (Rev. T. G.), Ice Caves, 327
Borneo, Birds of, 407
Borrelly's Comet, 115, 229
Boston (U.S.): Society of Natural History, 80, 180, 273; Academy of Natural Sciences, 419
Botany: Botanical Locality Record Club, 175; "Botanical Problems," by Prof. Cohn, 261; *Botanical Magazine*, 317; "Botany for Home and School Use," by Frances A. Kitchener, 147; Botany in Queensland, 271; "Botany, Lessons in Elementary," 226; "Botany, Manual of," by R. Brown, M.A., Ph.D., 345; Botany of Galway Bay, 395; Botany, Systematic, Mr. Bentham on, 254
Bottomley (J. T., M.A.), Logarithmic and Trigonometrical Tables, 424
Boxwood, 254
Brady (H.P., F.L.S.), Flückiger and Hanbury's "Pharmacographia," 42
Bramwell (F. J., F.R.S.), Protection for Inventions, 141
Brazil (Emperor of), elected Member of the French Academy of Sciences, 356
Brazil, Observatory at Rio Janeiro, 395
Bright Colour in Animals, 148, 208
Brinckley's "Astronomy," by Stubbs and Brünnow, 83
British Museum, its Sanitary Condition, 174
Brooke (Victor), Fallow Deer in England in Pleistocene Times, 210
Brown (Robt., M.A.), "The Races of Mankind," 128; "Manual of Botany," 345
Brunton (T. Lauder, F.R.S.), Indian Venomous Snakes, 377
Buchan (Alex.), Climate of Scotland, 329
Buchanan (Andrew, M.D.), "Circulation of the Blood," 184
Buchanan (J. Y.), Vertical Distribution of Temperature in the Ocean, 157
Burnham (S. W.), Antares, 405
Butter, Artificial, 76

Calcutta, Botanic Gardens, 18, 295
Cambridge: Science at, 17, 34, 35, 57, 92, 115, 131, 135, 196, 272, 294, 313, 333, 353, 373, 394, 413, 434, 474, 475, 515; Philosophical Society, 140, 339, 400
Camels reared in Nevada (U.S.), 396
Cameron (Lieut.), his African Expedition, 153, 195; Map of Lake Tanganyika, 293
Campbell (Dr. A.), Obituary Notice of, 56
Camphor, Distillation of, 456
Canada: Geological Discovery, 57; Science in, 414
Canada Rice, a new Material for Paper, 33
Caoutchouc, Cultivation of, 355, 395, 436
Carbon Cells and Plates for Galvanic Batteries, 8
Carnuba Root, 414
Carpenter (W. B., M.D., F.R.S.), "The Microscope and its Revelations," 283; Soundings taken by H.M.S. *Challenger*, 297
Carrier Pigeons, 237
Carter (H. J.), Calcareous and Siliceous Remains in Marine Strata, 186
Case (F.), Softening of Iron Pyrites, 248, 269, 285
"Cave Hunting," by W. Boyd Dawkins, F.R.S., 302
Caves of Kentucky, 414
Caves, Settle, 304, 514
Cedar, Florida, acclimatised in Bavaria, 396
Ceylon, Forests of, 274
Challenger, Progress of the, 34, 57, 174, 177, 196; Notes by Prof. C. Wyville Thomson, F.R.S., 95, 116, 287
Chameleon Barometer, 307, 365
Chamois Shooting, 435
Chappell (W., F.S.A.), "History of Music," 123, 208
Chemical Dictionary, by Dr. H. v. Fehling, 165
Chemistry: Chemical Society, 34, 39, 78, 97, 119, 159, 239, 299, 336, 357, 379, 394, 416, 458, 500; Chemistry, Lectures by Prof. Frankland, 497; "Chemistry, Physiological; Demonstrations on," by S. W. Moore, F.C.S., 283; "Chemistry, Practical, by Frank Clowes, B.Sc., 107; Chemistry of Cremation, 33
Chesil Bank, Origin of the, 386, 506
Chester, Society of Natural Science, 322
Chicago, Botanical Gardens at, 294
China, Expedition from Burmah through, 175, 209
"Chinchon, Memoir of the Countess of," by C. R. Markham, C.B., F.R.S., 383
Chinese Dwarf Trees, 475
Chinese Grass Plant, 315
Chisholm (H. W.), International Metric Commission, 54; his Annual Report as Warden of the Standards, 270
Cholera, Microscopical Researches on, 444
Cinchona Bark, Trade in, 373
Civil Engineers' Institute, 79, 174, 196, 240, 299, 246, 339, 459, 480
"Civilisation, Origin of," by Sir J. Lubbock, Bart., M.P., F.R.S., 401
Classification of the Animal Kingdom, 101
Cleland (John, M.D., F.R.S.), "Animal Physiology," 504
Clerk-Maxwell (Prof., F.R.S.), Dynamical Evidence of the Molecular Constitution of Bodies, 357, 374
Clock Movement, Inventor of its application to Equatorial Telescopes, 166
Clock, New Standard Sidereal, at the Royal Observatory, Greenwich, 431
Clothworkers' Company, Science Exhibitions at Cambridge, 34, 456
Clowes (Frank, B.Sc.), "Practical Chemistry," 107
Coal in New South Wales, 136; American, 36
Coal Ashes, Diatomaceæ in, 475
Cobbold (Dr. T. S., F.R.S.), Lewis on Hæmatozoa, 363
Cocoa Cultivation, 216
Cœlometer, the, 17
Coffee Plant, Disease in the, 475
Coggia's Comet, 238, 295
Cohn (Prof.), "Botanical Problems," 261
Colorado Beetle, 355, 476
Colorado, Survey of, 154
Cold, its effects on Railway Axles, 195
Cole (Sir Henry, K.C.B.), appointed Commander of the Bath, 412
College of Surgeons, Casts of the Brain, 235
Colour, Bright, in Animals, 148, 208
Colour in Flowers, 28, 47
Coloured Shadows, 406
Columnar Formation in Mud Banks, 285
Comber (Thos.), Insects and Colour in Flowers, 47
Comets: Borrelly's, 115, 229; Winnecke's, 228, 295, 308, 349, 473; Coggia's, 238, 295; Encke's, 134, 169, 287, 294, 308, 328, 365, 387; Halley's, 270, 286; Comet of 1766, 489; Comet of 1812, 446; Comet of 1840, 407
Comets, Guillemin on, 196
"Cone (The) and its Sections," by S. A. Renshaw, 404
Cook, Captain, Monument to his Memory, 153
Cooke (Dr. M. C.), Gums and Resins in India Museum, 252; Pollen Grains, 307
Copal Trees of Zanzibar, 414
Coral Reefs, 456
Cornu (M. A.), Velocity of Light and Sun's Parallax, 274
Costa Rica, Survey of, 333
Cousin Marriages, 406
Cremation, Chemistry of, 33
Crookes (Wm., F.R.S.), his Radiometer, 494
Cryptogamic Society, Scottish, 497
Crystallography, Prof. Maskelyne's Lectures, 34, 56
Crystal Palace School of Art, Science, and Literature, 57
Crystals, Morphology of, 187
Cruelty, Psychology of, 149
Ctenophoræ, Embryology of the, 76
Cunningham, (D.D., M.B.), Fungi in Opium Blight, 424; Microscopical Researches on Cholera, 444
Currents in Air and Sea, 186
Cuttell, Mr., and Section Cutting, 167
Cyclones, 317

Dalton's First Table of Atomic Weights, 52
Darwin (Chas., F.R.S.), "Descent of Man," 305
Darwin (George), Endowment of Research, 27; Cousin Marriages, 406
"Darwinism," by Oscar Schmidt, 267
Dawkins (Prof. W. Boyd, F.R.S.), Northern Range of Fallow Deer, 112, 226; "Cave Hunting," 302

Dawson (Principal J. W., F.R.S.), Marine Boulder Clay, 306
Death's-head Moth, 427
Deer, Fallow : its Geographical Distribution, 71, 112 ; in England in Pleistocene Times, 210
"Deep-sea Fishing," by E. W. H. Holdsworth, F.L.S., 421
Deep-sea Researches, 148
Deductive Method in Physical Science, by Helmholtz, 149, 211
"Dental Pathology and Surgery," by S. J. A. Salter, F.R.S., 147
Denton (S. G.), Thermometer Scales, 427
De Rance (Chas. E.), Southport Aquarium, 393 ; Arctic Geology, 447, 467, 492, 508
"Development of Man," by Ernst Hæckel, 4, 22
D'Halloy (D'O.), Obituary Notice of, 254
Diatomaceæ in Coal Ashes, 475
Dissipation of Energy, 454
Distant (W. L.), Thomson's "Malacca," 248
Dobson (G. E.), *Anabas scandens*, or Climbing Perch, 109
Dohrn (Dr.), Naples Zoological Station, 496
Domestication of Animals, 317
Donati (Prof.), Inscription to his Memory, 75
Drayson (Lieut.-Col., R. A.), "Proper Motion of the Fixed Stars," 66
Dresser (H. E., F.Z.S.), "Birds of Europe," 485
Droseræ, 47
Drysdale (Dr. John), Electric Conductivity of Nerves, 247
Dublin : Royal Irish Academy, 76, 140, 279, 340, 412 ; Royal Society, 413 ; Trinity College, 17, 115, 294 ; University, 17 ; Geological Society, 334, 400 ; Zoological Society, 334 ; Royal College of Science, 115 ; Proposed Museum of Science and Art, 135
Dulwich College, Scientific Lectures, 57
Dundee, Proposed College at, 116
Duruof (M.), his Aëronautical Experiments, 369 ; Aëronautics, 467
Duseigneur-Kléber (M. E.), "The Silkworm Cocoon," 206
Dyer (Prof. W. T., F.L.S.), Royal Agricultural Society and the Potato Disease, 67, 128 ; Tree Aloes of South Africa, 89
Dynamical Evidence of Molecular Constitution of Bodies, 357, 374, 486

Earth and Sun as Forces in Chemistry, 324
Earthquakes : 414 ; Carnarvonshire, 57 ; Innsprück, Smyrna, 77 ; Chili, 94 ; Pyrenees, America, 173 ; Philippine Islands, 194 ; Ravenna, 255, 413 ; Carniola, Algeria, 313 ; Mexico, 396
Eastbourne Natural History Society, 155
Eclipses of the Sun : April 6, 1875, 201, 215, 228, 235, 312, 351, 354, 371, 394, 412, 452, 474, 490 ; A.D. 878, 365 ; A.D. 1715, 507 ; A.D. 1900, 472
Edinburgh : Botanical Society, 311 ; Museum of Science and Art, 116 ; Royal Society, 120, 179, 319, 380, 400 ; Meteorological Society, 319 ; Proposed Aquarium, 427 ; University ;—Meeting under the Presidency of the Duke of Edinburgh, 115 ; University, 255, 516
Education, Agricultural, 104
Education, Female, 154, 236, 314, 373, 435
Education in Science, Address by Sir John Lubbock, Bart., F.R.S., 21
Education, Monthly Journal of, 486
Electric Conductivity of Nerves, 247
Electric Lamp, 154
Electric Telegraph, Progress of the, 390
Ellis (A. J., F.R.S.), "Musical Duodenes," 88
"Embryology, Elements of," by M. Foster, M.A., F.R.S., and F. M. Balfour, B.A., 126
Encke's Comet, 134, 169, 228, 270, 287, 294, 308, 328, 365, 387
"Encyclopædia Britannica," Ninth Edition, 343
Endowment of Research, 1, 27 ; Sir J. Herschel on, 347
Energy, Dissipation of, 454
English Arctic Expedition (*See* Arctic Exploration)
"English Men of Science," by F. Galton, F.R.S., 161
Entomological Society, 79, 160, 239, 399, 459
Eocene Mammals, New Order of, 368
Esparto Grass, 333
Eucalyptus globulus, 436
Everett (Prof. J. D., D.C.L.), Mirage, 49, 69
Explosions, Accidental, Lecture by Prof. F. A. Abel, F.R.S., 436, 477, 498

Fallow Deer, Geographical Distribution of, 71, 112, 226 ; in England in Pleistocene Times, 210 ; Fossil Remains in Malta, 247
Faraday Lecture at Royal Institution, 411
Fatigue, Law of, regulating Muscular Exertion (*See* Muscular Mechanical Work)
Fehling (Dr. Hermann v.), New Chemical Dictionary, 165
Female Education in Science, 154, 236, 314 ; London University, 373 ; School of Medicine for Women, 435
Ferrel (W.), Constant Currents in Air and Sea, 186
Fertilisation of Flowers by Insects, 32, 110, 169
Fetis (F. J.), "History of Music," 125
Fish, Acclimatisation of American, 476
Fish ; Movements of the Herring, 151
Fish, Nest of, 48
Fisher (R. C.), *Hoplophora decumana*, 364
Fisheries of India and Burmah, 175
"Fisheries of the British Islands," by E. W. Holdsworth, F.L.S., 421
Flames, Sounding and Sensitive, 45, 88, 129
Flight of Birds, 364
Flint Celt, 466
Flowering of the Hazel, 466, 507
Flowers, Colour in (*See* Colour)
Flowers and Bees, 285
Flowers destroyed by Birds, 428, 446
Flowers fertilised by Insects (*See* Fertilisation of Flowers)
Flückiger and Hanbury's "Pharmacographia," 42
Fonvielle (W. de), the Recent Thaw, 194 ; Storms in the Atlantic, 290 ; Meteorological Observations in the Pyrenees, 369 ; Twenty-three Hours in the Air, 429 ; Aëronautics, 467 ; Haloes, 476 ; Fatal Balloon Ascent—the *Zenith*, 495, 513
Formosa, Journey in, 216
Forests of Ceylon, 274
Forrest (John), "Exploration in Western Australia," 475
Fossils in "Trap," 129
Foster (M., B.A.), and F. M. Balfour, B.A., "Elements of Embryology," 126
Fountain, Monumental, at Paris, 36
Fritz (Prof.), Geographical Distribution of Auroræ, 14
Frog, Cry of the, 48
Frogs and Snakes, 167
Fryer (Herbert F.), the "Wolf" in the Violoncello, 406
"Fungi," by M. C. Cooke, M.A., LL.D., 462
Fungi in Opium Blight, 424
Fusinieri (Ambrogio), "Degli Studi Fisici," 67

Gabb (Prof.), Survey of Costa Rica, 333
Galton (F., F.R.S.), "English Men of Science," 161
Galway Bay, Plants and Ferns of, 434
"Gamba" Organ-pipe, 325
"Gardeners' Year Book," by R. Hogg, LL.D., 186
Garrod (Prof. A. H.), Propeller imitating the Action of the Fin of the Pipe Fish, 429
Gaussian Constants, 285
Geiger (J. L., F.R.G.S.), "A Peep at Mexico," 84
Geikie (Prof. A., F.R.S.), Elie de Beaumont, 41
Geographical Distribution of Auroræ, 14
Geographical Society, 34, 37, 40, 75, 139, 220, 293, 339
Geography ; International Congress at Paris, 232
Geology : Geological Society, 57, 58, 139, 219, 299, 312, 338 ; Annual Meeting, Medals, 359, 378, 417, 434, 479 ; Geological Museum, New, 18 Geological Survey of Victoria, 181 ; Geologists' Association, 179, 319, 418, 457 ; Geology and the Arctic Expedition, 268, 447, 467, 492, 508 ; Geology, Past and Future Work of, 290, 315
Geometrical Conics, Walker's System of, 445
Geometrical Teaching, Report on, 504
"Geometry, Descriptive," by W. Watson, Ph.D., 265
Gerland (George), "Anthropological Contributions," 384
German Arctic Expedition 1869–70, 63
German Chemical Society, 200
German Manual of Scientific Inquiry, 321
Glasgow : Geological Society, 79, 180, 320, 400, 418 ; Philosophical Society, 216, 320 ; Science Lectures, 233
Glass, Hardened, 474
Godard (M.), Aëronautics, 467
Goldsmid (Col. Sir F. J., C.B.), "Telegraph and Travel," 347
Göttingen, Royal Society of Sciences, 459

Granville (A.R.), Height of Waves, 427
Grape-vine, (*See* Vine Disease)
Gray (J. E., F.R.S.), Obituary Notice of, 368
Green, (J. R., M.A.), "History of the English People," 164
Greenland, German Expedition to, 195
Greenwich Observatory, Standard Sidereal Clock, 431
Greenwood (Col. Geo.), Origin of the Chesil Bank, 386
Gregorian Year, 414
Gresham College, 2, 28, 516
Groves (Thos. B.), The Chesil Bank, 506
Gum, Kauri, of New Zealand, 414
Gum Trees, Blue, at Kew Gardens, 216
Gunpowder, Explosions of, 498
Guthrie (Principal F.), Trade Winds, 348; Flight of Birds, 364
Gyrostat Problem, 385, 424

Hastings: Philosophical Society, 94; Aquarium, 216
Hæckel (Ernst), "Development of Man," 4, 22
Hæmatozoa, Nematode, Pathological Significance of, 363
Hall (T. W., M.D.), Sun and Earth as Forces in Chemistry, 324
Halley's Comet, 270, 286
Halos, Solar, 395, 497
Hamilton's String Organ, 308
Hanbury (Daniel, F.R.S.), Obituary Notice of, 428
Hanbury and Fluckiger's "Pharmacographia," 42
Hancock's "Birds of Northumberland and Durham," 281
Harrison (J. P.), Phœnician Characters in Sumatra, 228
Hart (H. C.), Botany of Galway Bay, 395
Harting (J. E., F.L.S.), White's "Selborne," 423
Hartwig (G., M.D.), "The Aërial World," 385
"Hawaiian Archipelago, The," by Isabella J. Bird, 322
Haughton (Prof. Samuel, F.R.S.), Muscular Exertion, 464, 488
Hayden (Prof.), Geological Survey of the United States, 436
Hazel, Flowering of the, 466, 507
Heidelberg University, 173
Helmholtz on the Deductive Method in Physical Science, 149, 211; "Sensations of Tone," 516
Hennessey (J. H. N., F.R.A.S.), White Lines in Solar Spectrum, 318
Herapath's Balance, 348
"Heredity," by Th. Ribot, 503
Herring, Movements of the, 151
Herpetology, European, 271, 447
Herschel (Prof. A. S.), Sounding and Sensitive Flames, 6, 45, 88
Hind (J. R., F.R.S.), Re-appearance of Encke's Comet, 134, 169; Eclipse of the Sun, 201
Hinrichs (Gustavus), Muscular Exhaustion and Restoration, 426
"History of the English People," by J. R. Green, M.A., 164
Hoffmeyer (Capt.), Weather Charts, 208, 312
Hofmann (Dr. A. W.), Faraday Lecture at Royal Institution, 411
Hogg (R., LL.D.), "Gardener's Year Book," 186
Homeyer (Herr), African Exploration, 456
Honeyman (Dr. D.), Fossils in "Trap," 129
Hong Kong, Typhoon at, 168
Hooker's "Synopsis Filicum," 273
Hopkins (Rev. G. H.), Droseræ, 47
Hoplophora decumana, 434
Horrocks (Jeremiah), Memorial to, 31
Horticulture in Belgium, 154
Horticultural Society, 79, 120, 254, 278, 380, 398, 418, 458
Huddersfield Naturalists' Society, 396
Humboldt's "Natur-und Reisebilder," 435
Hurricane at Hong Kong, 195
Hutchinson (T. J., M.A.I.), "Two Years in Peru," 241, 262
Huxley (Prof. T. H., F.R.S.), Development of the *Columella auris* in the Amphibia, 68; Classification of the Animal Kingdom, 101; elected Foreign Associate of Belgian Academy, 173

Ice Barriers, Arctic, 87
Icebergs, 58, 476
Ice Caves, 327
Ice Phenomena in the Lake District, 309
Iceland, Volcano in, 514
India, Science in, 18, 355, 516
India, Sea Fisheries, 175
India Office, Natural History Collections, 16
Indian Meteorology, 145
Indian Museum, 77, 252, 413
Indian Tobacco, 373
Indian Venomous Snakes, 377
India-rubber Plants, 274, 395, 436
Ingleby (C. M.), Ring Blackbird, 187, 228
Insects, Accidental Importation of, 427
Insects, Discovery of Remains of, 88
Insects and the Colour of Flowers, 6, 28, 47
Insects, Fertilisation of Flowers by (*See* Fertilisation)
Instruments, Scientific, Loan Collection of, 301, 355
International Coinage Conference, 273
International Metric Commission, 54
Inventions, Protection for, 141, 190
Iron and Steel Institute, 515
Iron Ore in Norway, 456
Iron Pyrites, Softening of, 248, 269, 285
Isinglass, Manufacture of, 136
Islington, Proposed Public Libraries, 17
"Ismailia," by Sir Samuel W. Baker, Pacha, F.R.S., 24
Italy: Science in, 97, 98, 237; New Scientific Journal, 236; Prehistoric Antiquities of, 293; Spectroscopic Society, 337; Expedition to the Sources of the Nile, 356; Botanical Journal, 417

Jaborandi, Botanical Source of, 274, 414
Jackson (John R.), New Zealand Plants for Paper-making, 212; Botany in Queensland, 271
Jamain and Forney (MM.), "Les Roses," 85
Japan: Public Library in, 56; Medical Science in, 295
Jardine (Robt., B.D.), "Psychology of Cognition," 422
Jardine (Sir William, Bart.), Obituary Notice of, 72
Java, Cinchona Cultivation in, 18
Jeitteles (L. H.), Geographical Distribution of the Fallow Deer, 71
Jenkins (H. M.), The Royal Agricultural Society and the Potato Disease, 109
Jevons (Prof. W. Stanley, F.R.S.), Galton's "English Men of Science," 161; "Heredity," by Th. Ribot, 503
Jewish Week, Origin of, 363
Johnson (Wm. H.), Progress of the Telegraph, 390, 450, 470, 510
Just (D. L.), "Botanic Year Book," 284
Jute, 314

Keller (Franz), "The Amazon and Madeira Rivers," 241, 262
Kent (W. Saville), Mounting Acari for the Microscope, 406
Kentucky, Caves of, 414
Kew Gardens, 14, 216, 254
Kiddle (Capt. W. W.), The Thresher and the Whale, 234; Height of Waves, 386
Kiernan (Francis, F.R.S.), Obituary Notice of, 193
Kinahan (G. H., M.R.I.A.), "Valleys, Fissures, Fractures, and Faults," 403
King (Dr.), Report on Calcutta Botanic Gardens, 18
Kingfisher, Belted, Habits of the, 227
King's College, 313
Kingsley (Rev. C.), Obituary Notice of, 253
Kirkes' "Physiology," 227, 248, 363
Kitchener (Frances A.), "Botany for Home and School Use," 147
Krefft (Gerard) and the Sydney Museum, 236

Landslips in Denmark, 334
Lankester (Edwin, M.D., F.R.S.), Obituary Notice of, 15
Lankester (E. Ray), Development of Mollusca, 48
Lalande's Etoile Singulière, 287
Lateau (Louise), her Abstinence from Food, 455
Lea (Isaac, LL.D.), "The Unionidæ," 246
Lectures to Women on Physical Science, 74
Leipoldt (Dr. G.), Mean Height of Europe, 475
Lemon Plant, Dry Rot in the, 456
Leverrier (M.), Stellar Observations, 36; Paris Observatory, 154; Planetary Theories, 249; Comets and Small Planets, 294
Lewis (T. R., M.B.), Nematode Hæmatozoa, 363; Microscopical Researches on Cholera, 444
Ley (W. Clement), Upper Currents over Areas of Frost, 269; Storm Warnings from the United States, 405
Leyden University, 294, 312
Libyan Desert, Vegetation of, 137; Photographs of, 273

Lichtenstein (Maurice), Gresham Lectures, 28
"Liebig's Contributions to Experimental Chemistry," Lecture by Dr. A. W. Hofmann, 411
Light, Velocity of, 134, 274, 373
Lightning Conductors, 17
"Lightning, Struck by," 405
Lincecum (Dr. G.), Obituary Notice of, 237
Lingwood (Geo.), Decomposition of Iron Pyrites, 269
Linnean Society, 58, 77, 78, 101, 119, 159, 179, 258, 298, 337, 378, 417, 458, 500
Livingstone's "Last Journals," 142, 182
Liverpool Geological Society, 155
Lizards; the Tock-Tay, or Large House Lizard of Bengal, 272
Lloyd (Humphrey, D.D.), "Treatise on Magnetism," 221
Loan Collection of Scientific Instruments, 301, 355
Lobsters in Cans imported from America, 93
Lockyer (J. Norman, F.R.S.), Rumford Medal awarded to, 55, 156: New Map of the Solar Spectrum, 238; Lectures on Spectrum Analysis, 254
Loewy (B., F.R.A.S.), Weinhold's "Experimental Physics," 482
Logarithmic Tables, 424
London University, 27, 236, 254, 373
Lubbock (Sir John, Bart., F.R.S.), Scientific Education, 21; Bees, Wasps, and Ants, 159; "Origin of Civilisation," 401; Ancient Monuments Bill, 481
Lyell (Sir Charles, Bart., F.R.S.), Obituary Notices of, 332, 341

M'Coy (Frederick, F.G.S.), Geological Survey of Victoria, 181
M'Farlane (D.), a Gyrostat Problem, 385, 424
Maclay (Dr. Von M.), Travels in Tabore, 413
M'Leod (Herbert), Meteor at Orleans, 427
M'Nab (Prof.), "Movements of Water in Plants," 62
M'Nab (W. R.), Cunningham on Fungi in Opium Blight, 424
"Magnetism, Treatise on," by H. Lloyd, D.D., 221
Magnus (Philip), London University, 27
"Malacca, Indo-China, and China," by J. Thomson, F.R.G.S., 207, 248
Malta, Tertiary Deposits, 516
"Mammals," by H. and A. Milne-Edwards, 463
Mammoth Cave, 256
"Man, Descent of," by Charles Darwin, F.R.S., 305
"Man and Nature," by G. P. Marsh, 82
"Mankind, Races of," by Robert Brown, M.A., 128
Manchester: Aquarium, 36; Exhibition at, 175; Geological Society, 395, 416; Literary and Physical Society, 19, 79, 99, 136, 180, 279, 319, 340, 418, 459; Owens College, 241
Marcoy (Paul), "Travels in South America," 241, 262
Marine Boulder Clay, 306
Marine Strata, Calcareous and Siliceous Remains, 186
Markham (Commander A. H., R.N.), appointed to the Arctic Expedition, 92, 114, 293, 474; "Whaling Cruise to Baffin's Bay," 404
Markham (Clements R., C.B., F.R.S.), Dr. Petermann and Arctic Exploration, 85; "The Countess of Chinchon," 383
Mars, 387
Marsh (G. P.), "Man and Nature," 82
Marsh (Prof. O. C.), Exploration of the Rocky Mountains, 237; New Order of Eocene Mammals, 368
Maskelyne (Prof. N. S., F.R.S.), Lectures on Crystallography, 34, 56; Morphology of Crystals, 187
Mason (Sir Josiah), Birmingham College of Science, 331
Massachusetts, Survey of, 497
Mastodon, Examination of the Stomach of a, 237
Mathematical Society, 60, 139, 258, 337, 398, 478
Mathieu (L.), Obituary Notice of, 372
Mayer (John), Science Lectures at Glasgow, 233
Medical Microscopical Society, 279
Medusidæ, Locomotion of, 29
Melbourne; Great Telescope, 94; Science at, 218; University, 333
Meldrum (C.), Periodicity of Rainfall, 327
Melliss (G. C., F.G.S.), "St. Helena," 501
Mental Science, Journal of, 19
Meridian, International Commission for Measuring the, 273
Metal Glass, 474
"Metallurgy, Elements of," by J. A. Phillips, C.E., 266
Meteorological Observations in the Pacific, 405; in the Pyrenees, 369
Meteorological Society, 78, 160, 259, 339, 417
Meteorological Telegrams, 394
Meteorology: Arctic, 434; Climate of Scotland, 329; Indian, 145; in England, 446; Scottish Meteorological Society, 456
Meteors, 154; Bengal, 295; Paris, 334; Oleron, Orleans, 396, 427; France, 413, 497
Meteor Shower, A.D. 855, 407
Metrical System, International Conference, 356
Metric Commission, International, 54
Metropolitan Scientific Association, 36
"Mexico, A Peep at," by J. L. Geiger, F.R.G.S., 84
Meyer (Dr. A. B.), New Bird of Paradise, 208; Rhinoceros in New Guinea, 268; his Critics, 506
Mice of North America, 273
"Micographic Dictionary," 267, 286, 307, 328
"Microscope and its Revelations," by W. B. Carpenter, M.D., F.R.S., 283
Microscopical Science, Journal of, 218
Microscopical Society, 40, 120, 220, 300, 379, 480
Microscopical Researches on Cholera, 444
Microscopy; *Hoplophora decumana*, 364
Migration of Birds, 5, 135, 149, 234
Milne-Edwards (H. and A.), New Work on Mammals, 463
Mirage, by Prof. J. D. Everett, D.C.L., 49, 69
Moas of New Zealand, 289
Moggridge (J. T., F.L.S.), Obituary Notice of, 114; "Harvesting Ants and Trap-door Spiders," 245
Molecular Constitution of Bodies, Dynamical Evidence of, 357, 374, 486
Mollusca, Development of, 48
Molluscs, Accidental Importation of, 427
Moore (S. W., F.C.S.), Physiological Chemistry, 283; Morphology of Crystals, 187
Morse Code, 328
Moss (R. J.), The Arctic Expedition, 348
Mott (F. T.), Insects and Colour in Flowers, 28
Mud Banks in the Indian Ocean, 135; on Malabar Coast, 187; Columnar Formation in, 285
Müller (Dr. Hermann), Fertilisation of Flowers by Insects, 32, 110, 169
Munro (J.), Natural Phenomena in South America, 329
Murphy (J. J.), Insects and Colour in Flowers, 28; Origin of Bright Colour in Animals, 148, 208
Muscular Mechanical Work done before Exhaustion, 256, 276, 426, 464, 488
"Music, History of," by W. Chappell, F.S.A., 123, 208
Music, Science in, 88

Nachtigal (Dr.), his Travels in the East, 216
Nares (Capt., R.N.), and the Arctic Expedition, 114, 134, 293
Naples, Zoological Station, 333, 496
Naval Architects, Institution of, 394, 408
Nebula, Variable, 489 (*See* Stars)
Nerves, Electric Conductivity of, 247
Nest of young Fish, 48
Neumayer (Dr. G.), Manual of Scientific Inquiry, 321
New (Rev. C.), Obituary Notice of, 475
Newcastle, College of Physical Science, 75
New Guinea, Rhinoceros in, 248, 268
Newton (Prof. Alfred, F.R.S.), Migration of Birds, 5; Zoology, 305; Phenological Phenomena, 408
New Zealand: Introduction of English Birds and Bees, 35; Institute, 135; Acclimatisation of Salmon, 209; Plants for Paper Making, 212; Salmon Eggs and Birds exported to, 217; Timbers, Durability of, 254; Remains of Moas, 289; Kauri Gum, 414; Wellington Philosophical Society, 419
Nichols (R. C., F.S.A.), Alpine Club Map of Switzerland, 8; Dynamical Evidence of Molecular Constitution, 487
Nipher (F. E.), Muscular Mechanical Work done before Exhaustion, 256, 276
Nitro-glycerine, action of its explosion on Fish, 76
Nova Zembla, Natural History of, 22

Observatories: Algiers, Bordeaux, Toulouse, 496; Greenwich, New Standard Sidereal Clock, 431; Paris, 36, 134, 154, 272, 273, 294, 373, 457, 476; Pola, 394; Pyrenees, 173; Rio Janeiro, 395
Ocean, Vertical Distribution of Temperature in the, 157
Ocean Waves, 444
Oliver (D., F.R.S.), Lessons in Elementary Botany, 226
Olive Oil in Tunis, 35

Opera House at Paris, Scientific Appliances, 349, 369
Opium Blight, Fungi in, 424
Opium Cultivation in Asia Minor, 35
Organ Pipes, 325
Owens College, Manchester, 241
Oxford, Science at, 92, 394, 497, 515
Oyster Cultivation at Utah, 217
Oysters, Scarcity of, 93

"Pacific States, Native Races of the," Bancroft's, 442
Palæontographical Society; "Monograph of the Post-tertiary Entomostraca of Scotland," 128
Palestine Survey Expedition, 154
Paper, New Material for, 33
Paper-making, New Zealand Plants for, 212
Paris: Academy of Sciences, 17, 20, 40, 60, 75, 80, 100, 120, 134, 140, 160, 174, 180, 196, 220, 235, 240, 259, 280, 300, 320, 340, 356, 360, 380, 413, 440, 460, 480, 500, 520; Anniversary Meeting, 178; Election of President, 273; its origin, 213: Acclimatisation Society, 56, 98, 219, 475; American Society, 135; Anthropological Society, 98; Easter Week at the Sorbonne, 516; Geographical Society, 80, 120, 140, 174, 196, 236, 254, 294, 515, 516; International Congress of Geographical Science, 232; International Metric Commission, 54; Monumental Fountain at, 36; Observatory, 36, 75, 154, 235, 272, 273, 294, 373, 457, 476; Science at the New Opera House, 349, 369; School of Medicine, 56; Telegraphic Administration, 394
Parker (Prof.), Hunterian Lectures on the Vertebrate Skull, 9, 314
Pasteur (Prof. L.), Royal Society's Medal presented to, 155
Pathological Society, 373
Pavesi (Dr. Pietro), Sharks, 18
Perch, Climbing, 109
Petermann (Dr. A.), Arctic Exploration, 37, 85
"Peru, Two Years in," by T. J. Hutchinson, M.A.I., 241, 262
"Pharmacographia," by Flückiger and Hanbury, 42
Phenological Phenomena, 408, 476
Philadelphia: Academy of Natural Sciences, 20, 93, 99, 255, 419; Centennial Exhibition, 76
Phillips (J. A., C.E.), "Elements of Metallurgy," 266
Phœnician Characters in Sumatra, 228
Photographic Image of the Spectrum, Influence of Pigments on the, 505
Photographic Society, 236
Phylloxera vastatrix and the Vine Disease, 11, 48, 56, 286
Physical Society, 35, 59, 99, 379, 399, 439, 479
"Physics, Experimental," by Prof. A. F. Weinhold, 482
Physiology: "La Vie," by Dr. Gustave le Bon, 246
"Physiology, Animal," by J. Cleland, M.D., F.R.S., 504
Pickard-Cambridge (Rev. O.), "Trap-door Spiders," 245
Pidgeon (D.), Struck by Lightning, 405
Pigeons, Carrier, 174, 237
Pigments, their Influence on the Photographic Image of the Spectrum, 505
Pine-apples from Portugal, 254
Pipe Fish, a Propeller imitating the action of its Fin, 429
Planets: New, 314; New Minor, 349; Mars, 387; Minor, 428
Planetary Theories, by M. Leverrier, 249
Plants, Discovery of Remains of, 88
Plarr (Mary J.), Bees and Flowers, 248
Poison in the Bamboo Cane, 18
Poisoning, Researches by Prof. Böhm, 334
Pole (Dr. W., F.R.S.), Alteration of Note of Railway Whistles, 232
Pollen Grains, 286, 307, 328
Potato Disease, 56, 67, 109, 128, 149, 166, 355
Potato Beetle, 476
Prestwich (Prof. J., F.R.S.), Past and Future Work of Geology, 290, 315
Prideaux (E.), Kirkes' Physiology, 248
Priestley Centenary, in Northumberland (U.S.), 136
Pringle (E. W.), Transit of Venus, 306
Protection for Inventions, 141, 190
Psychology of Cruelty, 149
Psychology: "Mind; a Quarterly Review," 294
Pye-Smith (Dr.), Hæckel's "Development of Man," 22

Queensland: Exploration in, 237; Botany in, 271
Quetelet (M. E.), Temperature of Brussels, 444

Race, its Relation to Species, 129
"Races of Mankind," by R. Brown, M.A., 128
Radiation, Attraction and Repulsion arising from, 494
Railway Accidents, 174
Railway Whistles; Alteration of Note in Trains meeting each other, 232
Rain, its Action in Calming the Sea, 279
Rainfall, Periodicity of, 327
Rain of Ashes, Norway and Sweden, 515
Rayleigh (Lord, F.R.S.), Insects and the Colours of Flowers, 6; Hamilton's String Organ, 308; Dissipation of Energy, 454
Renshaw (A. G.), Ants and Bees, 306
Renshaw (S. A.), "The Cone and its Sections," 404
Reichenbach (Count O.), Gaussian Constants, 285
Research, Endowment of (*See* Endowment of Research)
Research, Scientific, The *Times* on, 102
Rhinoceros in New Guinea, 248, 268
Rhubarb, 314
Rhynchosaurus articeps, 8
Ribot (Th.), "Heredity," 503
Riga, Society of Naturalists, 459
Right-handedness, 140
Ring Blackbird, 187, 209, 228
Rivers, Alteration of Levels, 314
Rivers, Change of Course of, 229
Rocks, Disintegration of, 356
Rodwell (G. F., F.C.S.), Heat, 139
Rohlfs (Dr. G.), Exploration in Africa, 356
Romanes (G. J.), Locomotion of Medusidæ, 29
Romilly (Lord), Protection for Inventions, 190
Roscoe (Prof. H. E., F.R.S.), Dalton's First Table of Atomic Weights, 52
"Roses, Les," by MM. Jamain and Forney, 85
Royal Institution, 411, 415, 456
Royal Society, 34, 55, 92, 138, 157, 258, 278, 296, 318, 334, 337, 377, 417, 439, 458, 494, 496, 499, 518; Presentation of Medals, 155; its Present Condition (President's Address), 175, 196; French Account of its Origin, 213
Rumford (Count), Complete Works of, 103
Russian Forests, 251

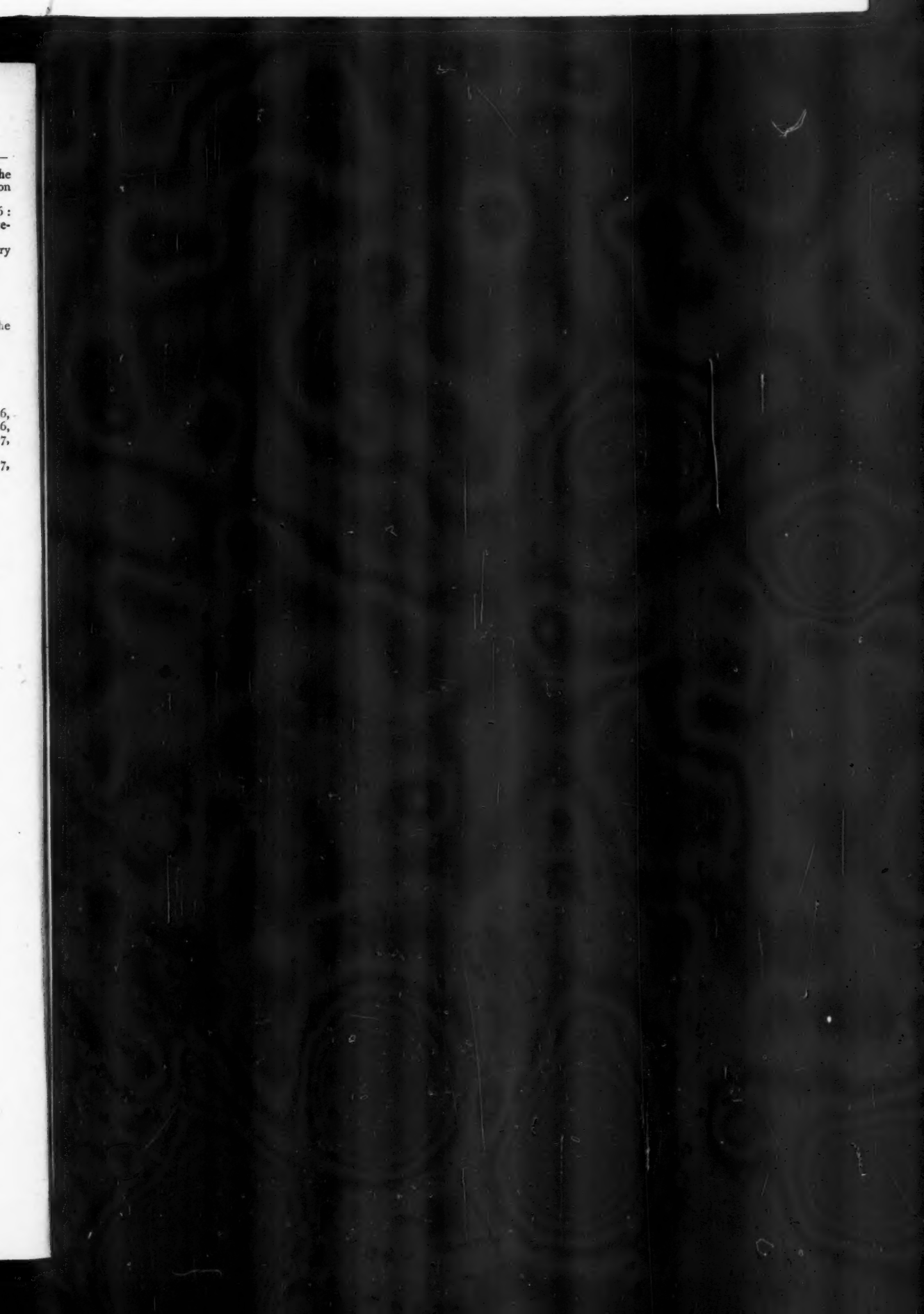
St. Andrew's University, 76, 196, 333
"St. Helena," by J. C. Melliss, F.G.S., 501
Salisbury (The Marquis of), Scientific Education, 241
Salmon, Acclimatisation of, in Otago, 209
Salter (S. J. A., F.R.S.), "Dental Pathology and Surgery," 147
Sandal-wood, Trade in, 395
"Sandwich Islands, The," by Isabella J. Bird, 322; Volcanic Action in the, 386
Saxby (H. L., M.D.), "Birds of Shetland," 81
Scheele, Monument at Stockholm to, 216
Schmidt (Oscar), "Darwinism," 267
Schreiber (Dr. Egid), "European Herpetology," 271
Schweinfurth (Dr. G.), African Photographs, 273; African Exploration, 496
Scientific Club, 356
Science Commission, 457
Scientific Education, The Marquis of Salisbury on, 241
Scientific Inquiry, German Manual of, 321
Scientific Surveys, 381
Sclater (P. L., F.R.S.), Zoological Gardens, 87; Lectures at the Zoological Gardens, 513
Scorpions, Suicide of, 29, 47
Scotland: Change of Climate, 329; "Scotland, Post-tertiary Entomostraca, Monograph of," 128; University Development in, 115; Scottish Cryptogamic Society, 497; Scottish Meteorological Society, 456; *Scottish Naturalist*, 257
Scott (Robert H., F.R.S.), Hoffmeyer's Weather Charts, 208
Sea-horse, 429
Seals, Destruction of, 93, 373
"Sensation and Intuition," by James Sully, M.A., 44
Sensitive Flames, 45, 88, 129
Serpent, New American, 255
Settle, Caves at, 304, 514
Shadows, Coloured, 406
Sharks in Suez Canal, 174
"Sheep, History, Structure, and Economy of," by W. C. Spooner, M.R.V.C., 106
Shell-Fish, importation of, 394
"Shetland, Birds of," by H. L. Saxby, M.D., 81

Siam; Invitation by the King to Royal and Astronomical Societies, 215
Silk-culture, 456
"Silkworm Cocoon," by M. Duseigneur-Kléber, 206
Simon (Eugène), "Spiders of France," 224
Smith (A. Percy), Chameleon Barometer, 365
Smith (E. J. A'Court), Flint Celt, 466; Discovery of Remains of Plants and Insects, 88
Smith (George), "Assyrian Discoveries," 441
Smith (Hermann), "Gamba" Organ-pipe, 325; Sounds of the String Organ, 425
Smith (W. G.), Pollen Grains, 286, 328
Smith (Dr. W. R.), Origin of the Jewish Week, 363
Snakes and Frogs, 167
Snake Poisoning, 377
Snow Storms, 334
Society of Arts, 35, 94, 141, 217, 237, 255
Social Science Association, 435
Solar Parallax, M. Puiseux's Calculations, 474
Solar Physics, M. Becquerel on, 132
Solar Spectrum, White Lines in, 318
Sorby (H. C., F.R.S.), Medal of Royal Society presented to, 156; Diatomaceæ in Coal Ashes, 475
Sounding and Sensitive Flames, 6, 45, 88
South American Travel, 241, 262
Southport Aquarium, 393
Southwell (Thos.), Thermometer Scales, 286
Spain, Science in, 372
Spalding (D. A.), Sully's "Sensation and Intuition," 44; Jardine's "Psychology of Cognition," 422
Species, in relation to Race, 129
Spectroscopy: Transit of Venus, 171; Stars, 236; New Map of the Solar Spectrum, 238; Spectrum of Coggia's Comet, 238; Influence of Pigments on the Photographic Image of the Spectrum, 505; White Lines in Solar Spectrum, 318
Spider, Crane or Windlass, 476
Spiders, Ingenuity of, 8
"Spiders of France," by Eugène Simon, 224
"Spiders, Trap-door," by J. T. Moggridge, F.L.S., 245
Spitzbergen, Natural History of, 22
Spooner (W. C., M.R.V.C.), "History, Structure, Economy, and Diseases of Sheep," 106
Spottiswoode (W., F.R.S.), Presentation of Medals at Royal Society, 155
Standards of Weight and Measure; Report of the Warden of the Standards, 270
Stanley (H. M.), his African Expedition, 77, 153 (*See* Livingstone's "Last Journals")
Starfish, Fossil, 476
Stars: Anthelm's, 407; Binary, Bootis; New Variable in Orion, 348; R. Hydræ, 349; Drayson's "Proper Motion of the Fixed Stars," 66; Falling, 154; Red, 446; Southern Double, 428; Spectroscopic Observations of, 236; "Temporary," of Tycho Brahe and Kepler, 249; Variable, 269, 308, 328, 334, 365, 387, 428, 473; Weight of a Fixed Star, 314
Statistical Society, 294
Stebbing (T. R. R.), Natural Phenomena in South America, 386
Stewart (Prof. B., F.R.S.), Dr. Lloyd's "Treatise on Magnetism," 221
Stigmaria, Structure of, 136
Stillman (W. J.), Influence of Pigments on the Photographic Image of the Spectrum, 505
Stockholm, Science at, 459
Stone (W. H.), "Wolf" in the Violoncello, 466
Stone Implements from the United States, 190, 215
Storms in the Atlantic, 290, 312
Storm Warnings from the United States, 405
Strange (Lieut-Col. A., F.R.S.), Transit of Venus, 130
Stratford, Lectures at, 254
Stratification in Electrical Discharges, 518
String Organ, Hamilton's, 308, 425
Sub-Wealden Exploration, 236, 267, 284, 313, 457
Sugar Cultivation in Porto Rico, 35
Suicide of Scorpions, 29, 47
Sully (Jas., M.A.), "Sensation and Intuition," 44
Sumatra, Phœnician Characters in, 228
Sun, The; Preliminary Inquiry into the Existence of the Elements not previously traced, by J. Norman Lockyer, F.R.S., 334; Sun and Earth as Forces in Chemistry, 324; Sun's Parallax, 274, 489; Sun-spots, 416
Surveys, Scientific, 381
Switzerland, Government Map of, 116; Map of the Lake of Geneva, 372
Sydney Museum, 236
Symons (W.), Carbon Cells] and Plates for Galvanic Batteries, 8

Tea, Trade in, 435
Teeth of the Newt, Lizards, and Ophidia, 157
Telegraph, Progress of the, 390, 450, 470, 510
"Telegraph and Travel," by Col. Sir J. F. Goldsmid, C.B., 347
Telegraphy, International Conference on, 457
Telescope for Paris Observatory, 272
Telescopes, Equatorial, Inventor of Clock Movement applied to, 166
Temperature of Brussels, 444
Temperature of the Ocean, 157
Temperature Chart of the United States, 267
Texas, Survey of, 155
Thaw, Recent, 193
Thermometer Scales, 286, 427
Thermometers, New Notation for, 457
Thibet, Exploration in, 293
Thomson (J., F.R.G.S.), "Malacca, Indo-China, and China," 207, 248
Thomson (Prof. C. Wyville, F.R.S.), Reports on the *Challenger* Expedition, 95, 120, 287, 297
Thresher, The, and the Whale, 234
Times, Weather Chart in the, 473, 497
Tissandier (Gaston), Aëronautics, 467; his Ascent in the *Zenith* Balloon, 495
Tobacco Cultivation in Algeria, 436; Indian, 373
Tobacco Smoke, 456
Tock-Tay, or large House Lizard of Bengal, 272
Topham (John), Ingenuity of a Spider, 8
Topley (W.), Sub-Wealden Exploration, 284
Trade Winds, 348
Traill (C.), Improvement of the Zoological Gardens, 68
Transit of Venus (*See* Venus, Transit of)
Transit of Venus, A.D. 1631, 507
"Trap," Fossils in, 129
Tree Aloes of South Africa, 89, 254
Tree Ferns, 254
Trees, Catalogues of, 154
Trieste, Scientific Society at, 372
Trigonometrical Tables, 424
Tunnel between France and England, 273
Turner (W., M.D.), "Human Anatomy," 464
Tuscarora, U.S. Steamer; Deep Sea Soundings, 295
Tyndall (Prof.), Acoustic Reversibility, 239
Typhoon at Hong Kong, 168

Umbellula, or Cluster Polyp, 252
"Unionidæ," by Isaac Lea, LL.D., 246
University College, 355, 371
University Reform, Mr. Disraeli on, 292
Upper Currents over Areas of Frost, 269
Uranus, Satellites of, 395
Utah, Birds of, 136; Oyster Cultivation at, 217

"Valleys, Fissures, Fractures, and Faults," by G. H. Kinahan, M.R.I.A., 403
Variable Nebula, 489
Variable Stars, 269, 308, 334, 365, 387
Vegetation of the Libyan Desert, 137
Ventilation, Theory of, 296
Venus, Transit of; Reports of the Expeditions, 16, 36, 93, 102, 112, 121, 130, 134, 153, 171, 177, 194, 214, 234, 254, 306, 313, 332, 354, 365, 371, 387, 394, 417, 455
Venus, Transit of: A.D. 1631, 507
Victoria: Aborigines, 155; Agriculture, 361; Geological Survey, 181; Royal Society, 91
Victoria Philosophical Institute, 76, 120, 199, 360, 418, 459
Vienna, Imperial Academy of Sciences, 420
Vine Cultivation, 274, 396
Vine Disease in the South-east of France, 11, 56
Violoncello, The "Wolf" in the, 406, 466
Volcanoes: Sandwich Islands, 386; Iceland, 514; Moluccas, 515
Von Heuglin's Travels in Spitzbergen and Nova Zembla, 22

Walker (Alfred O.), Rhinoceros in New Guinea, 248, 268
Waller (Rev. H., F.R.G.S.), Livingstone's "Last Journals," 142, 182
Ward (J. C.), Ice Phenomena in the Lake District, 309
Ward (Dr. T. O.), *Rhynchosaurus articeps*, 8
Watford Natural History Society, 196, 237, 274, 334, 419
Watson (Dr. Forbes), Education in connection with India, 413
Watson (Wm., Ph.D.), "Descriptive Geometry," 265
Waves, Height of, 386, 427, 444
Weather Charts, 208, 312, 473, 497
Weinhold (Prof. A. F.), "Experimental Physics," 482
Wells, Circulation of Underground Water, 136
Werekha (P. N.), Russian Forests, 251
Wetterhan (F. D.), Flowering of the Hazel, 507
Weyr (Dr.), Mathematical Works by, 283
Whale, The, and the Thresher, 234
"Whaling Cruise to Baffin's Bay," by A. H. Markham, F.R.G.S. Commander R.N., 404
White's "Selborne," 423
White (Dr. F. B.), Accidental Importation of Molluscs and Insects, 427
Whitmee (Rev. S. J.), Meteorological Observations in the Pacific, 405
Whitwell (C. T. L.), Chameleon Barometer, 307; Coloured Shadows, 406
Whitworth Exhibitions, 272
Willis (Prof. R., M.A., F.R.S.), Obituary Notice of, 535
Williams (W. Mattieu, F.C.S.), Arctic Ice Barriers, 87; on the "Complete Works of Count Rumford," 203; Decomposition of Iron Pyrites, 269
Williamson (Prof. W. C., F.R.S.), Structure of Stigmaria, 136: Deep Sea Researches, 148; Medal of Royal Society presented to, 156; Section Cutting, 167
Wilson (Prof. W. P., of Melbourne University), Obituary Notice of, 333
Winnecke's Comet, 228, 295, 308, 349, 473
Wire (A. P.), Decomposition of Iron Pyrites, 269
"Wolf," The, in the Violoncello, 406, 466
Wollaston (G. H.), The Phylloxera, 286
Wood (Major Herbert, R.E.), Cause of the Change in the Course of the Amú Darya River, 229
Wyman (the late Dr. Jeffries), Memorial of, 274

Zanzibar, Copal Trees, 414
"*Zenith*" Balloon Ascent, 495, 513
Zodiacal Light, 115, 249, 270, 349
Zoological Gardens: Additions to, 18, 36, 58, 77, 95, 116, 136, 155, 175, 196, 218, 237, 256, 274, 295, 315, 334, 356, 373, 396, 436, 457, 476, 497, 516; Drainage, 115; Improvement of, 67, 87; Lectures, 333, 513
Zoological Society, 39, 78, 119, 219, 259, 298, 339, 379, 417, 500, 520
"Zoology," by Alfred Newton, F.R.S., 305
Zoology, Museum of Comparative, 175